Wensheng Zheng

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Work Interest

Passionate about deepening expertise in algorithms and computer vision through Lab/Enterprise experience.
Enthusiastically engaged with automata theory and writing algorithm analysis proofs.

Education

Yonsei University **Seoul, South Korea**
B.S. in Computer Science *2021.3 - 2025.3 (expected)*

- Core Courses: Data Structures, Algorithm Analysis, Computer Vision, Compiler Design, Automata and Formal Languages, Discrete Mathematics, Logic Circuit Design, Computer Architectures, Database Management Systems, Operating System, Computer Networks, Machine Learning, Information Security
- IELTS: 7.0

Research Experience

AI Acceleration with Deep Learning Compiler *2024.9 - 2024.12*
Graduation Project 2; Supervisor: Prof. YongJun Park

- Developed simple AI model accelerations on Nvidia Jetson Xavier. Writing benchmarks of models' performance on raw CPUs, raw GPUs, and GPUs with acceleration frameworks.
- Code in Python, C, and bash scripting.

Synthetic Data Generation: Synthesizer and Evaluation *2024.3 - 2024.5*
Graduation Project 1; Supervisor: Prof. Won-Suk Lee

- Developed synthetic data generator based on Marginal distributions and data analyzer with result visualization tools.
- Code in Python, with mathematical libs.

Selected Course Projects

Computer System *2024.9 - 2024.12*

- CSAPP labs (Bomb lab, Buffer overflow attacks, Hardware acceleration), and a naive implementation of Linux find() using unix I/O.

Operating System *2024.3 - 2024.6*

- CPU scheduling (FIFO, RR, MLFQ), mmap/munmap System call, Multithread support.

Compiler Design *2023.9 - 2023.12*

- Frontend of a naive C compiler, with lexical analysis, syntax analysis, semantic analysis, and code generation to Java bytecode.

Computer Networks *2023.9 - 2023.12*
A simple proxy HTTP server, implementing URL filtering and image filtering.

Computer Architectures *2023.3 - 2023.6*

- 5-staged pipelined CPU, which breaks down the execution of a MIPS instruction into instruction fetch (IF), instruction decode (ID), execute (EX), data memory access (MEM) and writeback (WB).

Skills

- Programming: Python, Rust, bash, Linux, MATLAB